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Attorney's Docket No. 0567019004

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Patent Application of: Arumugam Manthiram et al.) Art Unit: 1745
Application No: 10/010,858) Examiner: Not yet assigned
Filed: December 5, 2001	
For: SURFACE/CHEMICALLY MODIFIED OXIDE CATHODES FOR LITHIUM-ION BATTERIES))

BOX MISSING PARTS Commissioner for Patents Washington, D.C. 20231

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT PURSUANT TO 37 C.F.R § 1.97

Sir:

Enclosed are two pages of Supplemental Information Disclosure Form PTO-1449B together with copies of the 12 cited documents. It is respectfully requested that the cited documents be considered and that the enclosed two pages of Information Disclosure Citation Form PTO-1449B be initialed by the Examiner to indicate such consideration, and copies thereof returned to Applicants.

Pursuant to 37 C.F.R. § 1.97, the submission of this Supplemental Information Disclosure Statement is not to be construed as a representation that a search has been made and is not to be construed as an admission that the information cited in this statement is material to patentability.

Applicants do not believe any fee is due with this submission, however, should a fee be required, please charge Blakely, Sokoloff, Taylor, & Zafman LLP Deposit Account No. 02-2666.

Respectfully submitted, BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

Dated: February 8, 2002

Charles P. Landrum, Patent Agent

Reg. No. 46,855

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Under the Paperyo BADEN Complet if Known Substitute for form 1449B/PTO SUPPLEMENTAL 10/010,858 **Application Number** INFORMATION DISCLOSURE December 5, 2001 Filing Date **First Named Inventor** Arumugam Manthiram STATEMENT BY APPLICANT Group Art Unit 1745 Not yet assigned (use as many sheets as necessary) **Examiner Name** 05670P004 1 of Attorney Docket Number Sheet

		OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS	-
Examiner Initials	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	7
		Amatucci, G.G. et al., "Materials' effects on the elevated and room temperature performance of C/LiMn2O4 Li-ion batteries", Jrnl of Power Sources 69, pp. 11-25, 1997	
		Amatucci, G.G. et al., "Failure Mechanism and Improvement of the Elevated Temp. Cycling of LiMn2O4 Compounds Through the Use of the LiAlxMn2-x-O4-zFz SolidSolution",-Jof-ElectrochemSoc.,-148(2)-ppA17-1-A182,-2001	_
		Blyr, A. et al., "Self-Discharge of LiMn2O4/C Li-Ion Cells in Their Discharged State", J. Electrochem. Soc., 145(1), pp. 194-209, 1998	
		Cho, J. et al., "Novel LiCoO2 Cathode Material with Al2O3 Coating for a Li Ion Cell", Chemical Mater. 12, pp. 3788-3791, 2000	
		Cho, J. et al., "LiCoO2 Cathode Materials That Does Not Show a Phase Transition from Hexagonal to Monoclinic Phase", J. of Electrochem. Society 148(10) pp. A1110-A1115, 2001	
		Gummow, R.J. et al., "Improved capacity retention in rechargeable 4 V lithium/lithium-manganese oxide (spinel) cells", Solid State Ionics 69, pp. 59-67, 1994	
		Matsuo, Y. et al., "Surface Layer Formation on Thin-Film LiMn2O4 Electrodes at Elevated Temperatures", J. Electrochem. Soc. 148(7) pp. A687-A692, 2001	
		Sun, X. et al., "Improved Elevated Temperature Cycling of LiMn2O4 Spinel Through the Use of a Composite LiF-Based Electrolyte", Electrochem. and Solid-State Ltrs. 4(11) pp. A184-A186, 2001	
		Thackeray, M. M. "Electrochemical Extraction of Lithium From LiMn2O4", Mat. Res. Bull., 19, pp. 179-187, 1984	
		Thackeray, M. M. et al., "Spinel Electrodes for Lithium Batteries - a Review", J. of Power Sources 21, pp. 1-8, 1987	
		Thackeray, Michael M. et al., "Structural Fatigue in Spinel Electrodes in High Voltage (4V) Li/LixMn2O4 Cells", Electrochem. and Solid-State Letters 1(1), pp. 7-9, 1998	

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^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



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C mplete if Known		
Application Number	10/010.858	
Filing Date	December 5, 2001	
First Named Inventor	Arumugam Manthiram	
Group Art Unit		
Examiner Name	Not yet assigned	
Attorney Docket Number	05670P004	

OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Thackeray, Michael M., "Spinel Electrodes for Lithium Batteries", Journal of the American Ceramic Society 82(12), pp. 3347-3354, 1999	
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